BILL OF QUANTITIES

5/6.2. FIRE ALARM SYSTEM AND SYSTEMS OF TECHNICAL PROTECTION - LOCATION NOVI SAD

Note: All items relating to materials include delivery.

No.	Description of works	Unit of measure	Quantity	Situacija 1	Unit price (RSD)	Price (RSD)
			A		B	AxB

NOTE
1. All items relating to materials include delivery.
2.The mentioned types and manufacturers of individual parts of the equipment or installation material are given as a closer information and are not binding. The contractor may also install other equipment or material, provided that it has the equivalen electrotechnical and constructive

2	**VIDEO SURVEILLANCE SYSTEM**					
	Note: Instalation is dealth with within the chapter related to the common communication network.					
	Works					
05.06.02.02.10	Mounting and connection of box camera to cable installation	pcs	69	62.00	3,167.64	196,393.68
05.06.02.02.11	Mounting and connection of adapter to cable installation.	pcs	69	62.00	1,290.52	80,012.24
05.06.02.02.12	Mounting and connection of the dome camera to cable installation	pcs	133	68.00	3,167.64	215,399.52
05.06.02.02.13	Mounting and connection of the dome camera adapter to cable installation	pcs	83	37.00	1,290.52	47,749.24
05.06.02.02.14	Mounting and connection of the workstation to cable installation	pcs	1		3,167.64	0.00
05.06.02.02.15	Mounting and connection of the monitor to cable installation	pcs	2		1,290.52	0.00
	TOTAL VIDEO SURVEILLANCE SYSTEM:					**539,554.68**
3	**ACCESS CONTROL SYSTEM**					
	Works					
05.06.02.03.12	Assembly, installation and connection to the completed system of the box for housing the system equipment and connection of equipment	pcs	23		5,748.68	0.00
05.06.02.03.13	Mounting and connection of the reader to the cable installation	pcs	23	11.00	938.56	10,324.16
05.06.02.03.14	Mounting and connection of the button for permanent/temporary release of electromagnetic holders to the cable installation	pcs	46	28.00	938.56	26,279.68
05.06.02.03.15	Mounting and connection of the electromagnetic holder to the cable installation	pcs	23	17.00	1,525.16	25,927.72
05.06.02.03.16	Measuring and testing of the completed installation	set	1		5,162.08	0.00
	TOTAL ACCESS CONTROL SYSTEM:					**62,531.56**
4	**INTRUSION DETECTION SYSTEM**					
	Works					
05.06.02.04.16	Assembly, mounting and connection of the housing for system equipment including mounting and connection of equipment	pcs	2		19,357.80	0.00
05.06.02.04.17	Mounting and connection of the motion detector to the cable installation	pcs	26	19.00	703.92	13,374.48
05.06.02.04.18	Mounting and connection of the glass break detector to the cable installation	pcs	4	4.00	703.92	2,815.68
05.06.02.04.19	Mounting and connection of the alarm siren to the cable installation	pcs	13	3.00	703.92	2,111.76

No	Description of works	Unit of measure	Quantity	Situacija 1	Unit price (RSD)	Price (RSD)
			A		B	AxB
05.06.02.04.20	Mounting and connection of the keypad to the cable installation	pcs	2	17.00	1,877.12	31,911.04
05.06.02.04.21	Measuring and testing of the completed installation	set	2		19,357.80	0.00
	TOTAL INTRUSION DETECTION SYSTEM:					**50,212.96**
5	**AUTOMATIC FIRE DETECTION (AFD-FAS)**					
	Works: Station Building Novi Sad					
05.06.02.05.28	Assembly and mounting of the cabinet and installation of equipment in the cabinet	pcs	1		13,726.44	0.00
05.06.02.05.33	Mounting and connection of addressable fire alarm control panel to the cable installation	pcs	1		32,263.00	0.00
05.06.02.05.34	Mounting and connection of relay module to the cable installation	pcs	6		1,290.52	0.00
05.06.02.05.35	Mounting and connection of the battery to the cable installation	pcs	4		938.56	0.00
05.06.02.05.36	Mounting on the base and connection of addressable automatic detector to the cable installation	pcs	350	185.00	469.28	86,816.80
05.06.02.05.37	Mounting and connection of line fire detector to the cable installation	pcs	2	2.00	3,519.60	7,039.20
05.06.02.05.38	Mounting and connection of the alarm siren to the cable installation	pcs	53	28.00	703.92	19,709.76
05.06.02.05.39	Mounting and connection of the parallel light indicator to the cable installation	pcs	38	25.00	234.64	5,866.00
05.06.02.05.40	Mounting and connection to the cable installation of additional base for fixing the fire detectors on non-standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	10	10.00	234.64	2,346.40
05.06.02.05.42	Measuring and testing of the completed installation	set	1		32,263.00	0.00
	Works: ETP Novi Sad					
05.06.02.05.62	Assembly and mounting of the cabinet and installation of equipment in the cabinet	pcs	2		13,726.44	0.00
05.06.02.05.67	Mounting and connection of addressable fire alarm control panel to the cable installation	pcs	1		32,263.00	0.00
05.06.02.05.68	Mounting and connection of relay module to the cable installation	pcs	2		1,290.52	0.00
05.06.02.05.69	Mounting and connection of the battery to the cable installation	pcs	2		938.56	0.00
05.06.02.05.70	Mounting on the base and connection of addressable automatic detector to the cable installation	pcs	21		469.28	0.00
05.06.02.05.71	Mounting and connection of the alarm siren to the cable installation	pcs	5		703.92	0.00
05.06.02.05.72	Mounting and connection of the input module to the cable installation	pcs	1		1,173.20	0.00
05.06.02.05.73	Mounting and connection of the magnetic contact for monitoring fire door status, i.e. whether the fire door is open or closed, to the cable installation	pcs	1		821.24	0.00
05.06.02.05.74	Mounting and connection to the cable installation of additional base for fixing the fire detectors on non-standard surfaces (concrete beams, roof structure, uneven walls,...), with all the necessary material	pcs	25		234.64	0.00
05.06.02.05.76	Measuring and testing of the completed installation	set	1		32,263.00	0.00
	TOTAL AUTOMATIC FIRE ALARM SYSTEM (AFD-FAS):					**121,778.16**
6	**FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT**					
	Works					
05.06.02.06.20	Mounting and connection of subsystem central unit to the installed system	pcs	2		16,072.84	0.00
05.06.02.06.21	Mounting on the base and connection of automatic detector to the cable instalation	pcs	16	10.00	469.28	4,692.80

No.	Description of works	Unit of measure	Quantity	Situacija 1	Unit price (RSD)	Price (RSD)
			A		B	AxB
05.06.02.06.22	Mounting and connection of manual call point to the cable installation	pcs	8	9.00	469.28	4,223.52
05.06.02.06.23	Mounting and connection of the alarm siren to the cable installation	pcs	8	8.00	703.92	5,631.36
05.06.02.06.24	Mounting and connectionof warning iluminated panel to the cable installation	pcs	8	6.00	586.60	3,519.60
05.06.02.06.25	Mounting and connection of parallel light indicator to the cable installation	pcs	4	4.00	234.64	938.56
05.06.02.06.26	Mounting and connection of the magnetic contact for monitoring fire door status, i.e. whether the fire door is open or closed, to the cable installation	pcs	4	4.00	351.96	1,407.84
05.06.02.06.27	Mounting, connection and setup of aspiration smoke detector.	pcs	1		25,810.40	0.00
05.06.02.06.28	Assembly and installation of cabinet and installation of equipment in cabinet	pcs	1		12,905.20	0.00
05.06.02.06.29	Measurement and testing of completed installation	set	1		12,905.20	0.00
	TOTAL FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT :					**20,413.68**
7	**SOS SYSTEM**					
	Works					
05.06.02.07.09	Assembly, mounting and connecting the central panel to cable instalation	pcs	1		3,871.56	0.00
05.06.02.07.10	Mounting and connecting of call-quit combination device to cable installation.	pcs	3		586.60	0.00
05.06.02.07.11	Mounting and connecting of room signal light to cable installation.	pcs	3		234.64	0.00
05.06.02.07.12	Mounting and connecting of SOS pushbutton cable installation.	pcs	3		234.64	0.00
05.06.02.07.13	Mounting and connecting of distribution box to cable installation.	pcs	3		234.64	0.00
05.06.02.07.14	Measuring and testing of the completed installation	set	1		6,452.60	0.00
	TOTAL SOS SYSTEM:					**0.00**
8	**SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM**					
	Note: Instalation is dealth with within the chapter related to the common communication network.					
	Works					
05.06.02.08.03	Mounting and connection of the storage device to cable installation	pcs	18		6,452.60	0.00
	TOTAL VIDEO SURVEILLANCE SYSTEM - subregional station:					**0.00**
9	**SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS**					
	Note: Instalation is dealth with within the chapter related to the common communication network.					
05.06.02.09.05	Mounting and connection of the parallel panel to the cable installation	pcs	1		2,933.00	0.00
	TOTAL SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS					**0.00**

No	Description of works	Unit of measure	Quantity	Situacija 1	Unit price (RSD)	Price (RSD)
			A		B	AxB

РЕКАПИТУЛАЦИЈА

2	VIDEO SURVEILLANCE SYSTEM		539,554.68
3	ACCESS CONTROL SYSTEM		62,531.56
4	INTRUSION DETECTION SYSTEM		50,212.96
5	AUTOMATIC FIRE DETECTION (AFD-FAS)		121,778.16
6	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT		20,413.68
7	SOS SYSTEM		0.00
8	SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM		0.00
9	SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS		0.00

TOTAL (RSD): 794,491.04

Za Montop Pro
Igor Miladinović

Za Roaming Smart Solution
Владимир Радовић

工程数量表

No.	Contents	System	Type	pcs	Num	Situacija 1	Unit Price (RSD)	Total (RSD)
107	Assembly and installation of PO-TK cabinet and connection of equipment	Cables for the common communications network (structured cabling, video surveillance system, clock system)	Works	set	2		4,692.80	0.00
109	Installation and connection of active network equipment with all necessary equipment	Cables for the common communications network (structured cabling, video surveillance system, clock system)	Works	set	1		187,125.40	0.00
118	Testing of copper lines of the common communications network with the preparation of measurement protocol	Cables for the common communications network (structured cabling, video surveillance system, clock system)	Works	set	1	1.00	68,632.20	68,632.20
128	Mounting of equipment with connection to the perfomed cable installation with all necessary equipment	VoIP COMMUNICATION SYSTEM	Works	set	1		5,866.00	0.00
156	Mounting and connection of the call station and keypads to the cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	1		1,290.52	0.00
157	Mounting and connection of ceiling loudspeaker to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	25	24.00	1,877.12	45,050.88
158	Mounting and connection of Column loudspeaker to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	103	94.00	1,877.12	176,449.28
159	Mounting and connection of horn to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	21	12.00	1,877.12	22,525.44
160	Mounting and connection of installation distribution box to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	140	140.00	1,290.52	180,672.80
161	Mounting and connection of attenuator to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	8	3.00	586.60	1,759.80
162	Mounting and connection of the network controller to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	1	1.00	6,452.60	6,452.60
163	Mounting and connection of amplifier to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	11	11.00	3,167.64	34,844.04
164	Mounting and connection of network audio module Audio/Ethernet to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	1	1.00	6,452.60	6,452.60
165	Mounting and connection of ambiental microphone with bracket to cable installation	PUBLIC ADDRESS SYSTEM	Works	pcs	16	16.00	1,290.52	20,648.32
166	Measuring and testing of the completed installation	PUBLIC ADDRESS SYSTEM	Works	set	1		25,810.40	0.00
174	Mounting and connection of the indoor mounted single-sided analog slave clock to cable instalation	CLOCK SYSTEM	Works	pcs	26	7.00	3,167.64	22,173.48
175	Mounting and connection of the outdoor mounted single-sided analog slave clockto cable instalation	CLOCK SYSTEM	Works	pcs	1		9,620.24	0.00
176	Mounting and connection of the outdoor mounted double-sided analog slave clock to cable instalation	CLOCK SYSTEM	Works	pcs	8	7.00	19,357.80	135,504.60
177	Instalation of bracket for single-sided or double-sided clock, diameter 30cm for indoor mounting.	CLOCK SYSTEM	Works	pcs	26	7.00	1,877.12	13,139.84
178	Instalation of bracket for single-sided or double-sided clock, diameter 60cm for outdoor mounting.	CLOCK SYSTEM	Works	pcs	9	7.00	3,167.64	22,173.48
185	Mounting and connection of the single-sided indoor mounting information display to system instalation	INFORMATION DISPLAY SYSTEM	Works	pcs	4	2.00	5,162.08	10,324.16
186	Mounting and connection of the single-sided outdoor mounting information display to system installation	INFORMATION DISPLAY SYSTEM	Works	pcs	1		5,162.08	0.00
187	Mounting and connection of the double-sided indoor mounting information display to system installation	INFORMATION DISPLAY SYSTEM	Works	pcs	10	7.00	7,743.12	54,201.84
188	Mounting of bracket for single-sided information display	INFORMATION DISPLAY SYSTEM	Works	pcs	5	2.00	5,162.08	10,324.16
189	Mounting of bracket for double-sided information display	INFORMATION DISPLAY SYSTEM	Works	pcs	8	7.00	7,743.12	54,201.84
197	Mounting and connection of the equipment to the completed installation	ENVIRONMENTAL MONITORING SYSTEM	Material	set	1		19,357.80	0.00
212	Assembly and mounting of cabinet and mounting the equipment in the cabinet	ENTRY OF THE CABLES owned by Telekom Srbija a.d.	Works	pcs	1		14,665.00	0.00
227	Installation and connection of active network equipment with all necessary equipment	PO-3KY 1.1 CONNECTION	Works	set	1		187,125.40	0.00

No.	Contents	System	Type	pcs	Num	Situacija 1	Unit Price (RSD)	Total (RSD)
234	Installation and connection of active network equipment with all necessary equipment	SUBREGIONAL STATION EQUIPMENT - COMMON COMMUNICATION NETWORK -PO-CEP	Works	set	1		187,125.40	0.00
248	Mounting and connection of the call station and keypads to the cable installation		Works	pcs	1		1,290.52	0.00
249	Mounting and connection of the network controller to cable installation	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM	Works	pcs	1		6,452.60	0.00
250	Mounting and connection of network audio module Audio/Ethernet to cable installation	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM	Works	pcs	1		6,452.60	0.00
251	Mounting and connection of the interface for transition from system cable to optical cable to cable installation	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM	Works	pcs	4		5,162.08	0.00
252	Measuring and testing of the completed installation	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM	Works	set	1		25,810.40	0.00
257	Mounting and connection of the parallel panel to the cable installation	SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS	Material	pcs	1		2,933.00	0.00

GRAND SUMMARY **885,531.36**

No.	System	Num	Type	Unit-Price (EUR)
2	CABLES FOR THE COMMON COMMUNICATIONS NETWORK (STRUCTURED CABLING, VIDEO SURVEILLANCE SYSTEM, CLOCK SYSTEM)	1.00	set	
3	CLOCK SYSTEM	1.00	set	
4	COMMON COMMUNICATION NETWORK	1.00	set	
5	ENTRY OF THE CABLES OWNED BY TELEKOM SRBIJA A.D.	1.00	set	
6	ENVIRONMENTAL MONITORING SYSTEM	1.00	set	
7	PO-3KY 1.1 CONNECTION	1.00	set	
8	INFORMATION DISPLAY SYSTEM	1.00	set	
9	MAIN CABLE ROUTES	1.00	set	
10	PUBLIC ADDRESS SYSTEM	1.00	set	
11	SOCKETS FOR THE COMMON COMMUNICATIONS NETWORK (STRUCTURED CABLING, VIDEO SURVEILLANCE SYSTEM, CLOCK SYSTEM)	1.00	set	
12	SUBREGIONAL STATION EQUIPMENT	1.00	set	
13	TWO-WAY COMMUNICATION MICROPHONE SYSTEM	1.00	set	
14	VOIP COMMUNICATION SYSTEM	1.00	set	

TOTAL : (RSD): **885,531.36**

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Igor Miladinović

Za Roaming Smart Solution

Lokacija Novi Sad